

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/002467**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 H04L 27/26**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H04L 27/26

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

KOREAN PATENTS AND APPLICATIONS FOR INVENTIONS SINCE 1975

KOREAN UTILITY MODELS AND APPLICATIONS FOR UTILITY MODELS SINCE 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Korean Intellectual Property Office Patent Search System "( intermediate &lt;and&gt; frequency &lt;and&gt; multicarrier) &lt;in&gt; AB"

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002280988 A(NOKIA MOBILE PHONES LTD) 27. SEP., 2002(2002.09.27) * THE WHOLE DOCUMENT	1,9
A	KPA 1020020092113 A(SAMSUNG S.D.S CO., LTD.) 11. DEC. 2002(2002.12.11) * THE WHOLE DOCUMENT	1,9



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

03 JANUARY 2005 (03.01.2005)

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### Information on patent family members

PCT/KR2004/002467

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2002280988 KPA 1020020092113	2002-09-27 2002-12-31	US2002127982 NONE	2002-09-12